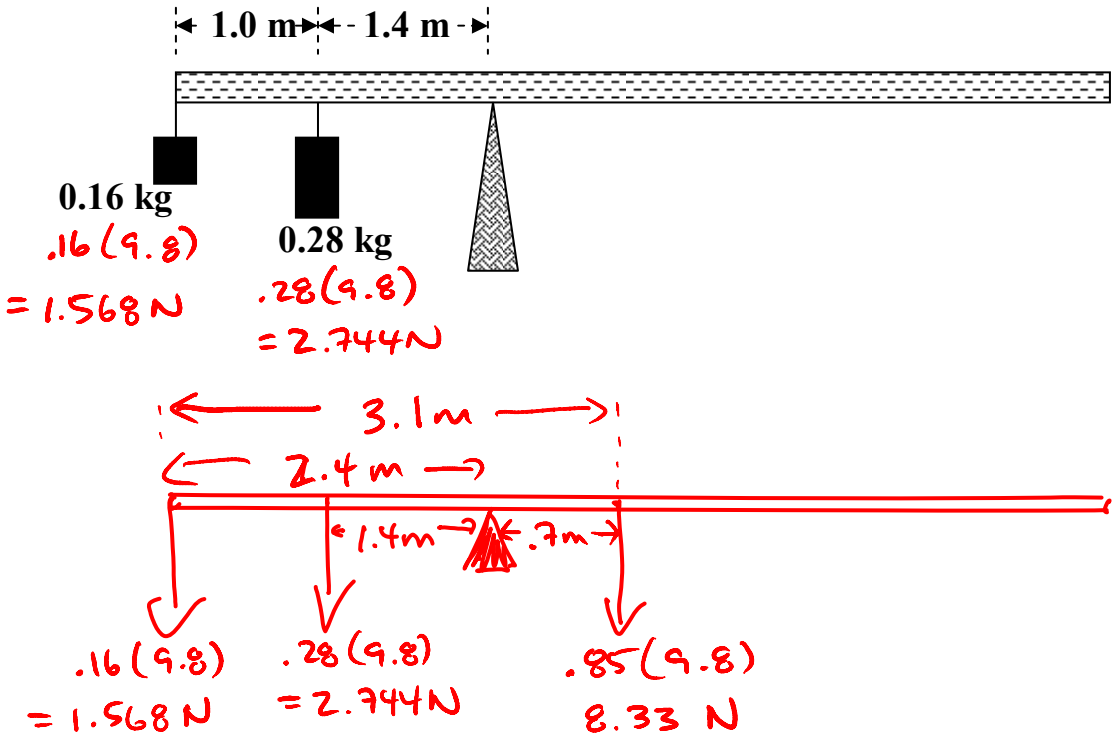
Example #9: Calculate the net torque acting in the system below. Note that the beam is uniform, has a mass of 0.85 kg, and a length of 6.2 m.



$$\tau_{cw} = 8.33(.7) = 5.831 \text{ N}\cdot\text{m}$$

$$\tau_{ccw} = 1.568(2.4) + 2.744(1.4) = 7.605 \text{ N}\cdot\text{m}$$

$$\boxed{\tau_{Net} = 1.7 \text{ N}\cdot\text{m}}$$